

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051252

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 D07B1/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 D07B D02G B60C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 176 705 A (DRICA-MINIERIS OSWALD A ET AL) 4 December 1979 (1979-12-04) claims 1-3	1-5, 8, 9
Y	US 4 408 444 A (BAILLIEVIER FREDDY) 11 October 1983 (1983-10-11) cited in the application claims 1,2,4; figure 2	1-5, 8, 9
A	EP 0 790 349 A (BEKAERT SA NV) 20 August 1997 (1997-08-20) claims 1,2,7; figure 1	1, 7
A	US 6 007 912 A (DOUJAK SIEGFRIED) 28 December 1999 (1999-12-28) claims 1-3,8,12; figure 1	1, 4, 8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/051788 A1 (BESSON MARC-ANDRE ET AL) 20 March 2003 (2003-03-20) claims 1,3,6; figure 1 -----	1,4,8
A	WO 02/088459 A (BEKAERT SA NV ; CAUWELS HANS (BE); VANNESTE STIJN (BE); MEERSSCHAUT DI) 7 November 2002 (2002-11-07) claim 1 -----	1-3

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/051252

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4176705	A	04-12-1979	CA 1060732 A1	21-08-1979
			DE 2701025 A1	21-07-1977
			FR 2338152 A1	12-08-1977
			GB 1535105 A	06-12-1978
			IE 44049 B1	29-07-1981
			IT 1076523 B	27-04-1985
			JP 1180144 C	30-11-1983
			JP 52088902 A	26-07-1977
			JP 58011325 B	02-03-1983
			LU 76543 A1	17-06-1977
			MX 145482 A	24-02-1982
			NL 7700064 A ,B,	19-07-1977
			ZA 7607438 A	30-11-1977
US 4408444	A	11-10-1983	NL 8102273 A	01-12-1982
			AT 384043 B	25-09-1987
			AT 181982 A	15-02-1987
			BE 893105 A2	08-11-1982
			BR 8202660 A	19-04-1983
			CA 1174565 A1	18-09-1984
			DE 3215638 A1	25-11-1982
			ES 265009 Y	01-06-1983
			FR 2505372 A1	12-11-1982
			GB 2098251 A ,B	17-11-1982
			IT 1147949 B	26-11-1986
			JP 1603152 C	29-03-1991
			JP 2029408 B	29-06-1990
			JP 57193253 A	27-11-1982
			KR 8801147 B1	01-07-1988
			LU 84130 A1	13-09-1982
			MX 159716 A	09-08-1989
			ZA 8202743 A	30-03-1983
EP 0790349	A	20-08-1997	EP 0790349 A1	20-08-1997
			AT 194176 T	15-07-2000
			BR 9700980 A	01-09-1998
			CA 2196345 A1	16-08-1997
			CN 1165221 A ,B	19-11-1997
			DE 69702353 D1	03-08-2000
			DE 69702353 T2	14-12-2000
			ES 2150186 T3	16-11-2000
			ID 15960 A	21-08-1997
			JP 9228274 A	02-09-1997
			RU 2126859 C1	27-02-1999
			US 5843583 A	01-12-1998
US 6007912	A	28-12-1999	DE 19535597 A1	27-03-1997
			AT 197327 T	15-11-2000
			BR 9610696 A	21-12-1999
			CA 2232494 A1	03-04-1997
			CN 1202943 A ,B	23-12-1998
			CZ 9800891 A3	15-07-1998
			DE 59606101 D1	07-12-2000
			WO 9712090 A1	03-04-1997
			EP 0852633 A1	15-07-1998
			ES 2153596 T3	01-03-2001
			JP 11512786 T	02-11-1999
			RU 2151226 C1	20-06-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6007912 A		SK 37098 A3 TR 9800546 T2	04-11-1998 21-07-1998
US 2003051788 A1	20-03-2003	DE 10144833 A1 EP 1293600 A2	30-04-2003 19-03-2003
WO 02088459 A	07-11-2002	CZ 20032888 A3 WO 02088459 A1 EP 1381730 A1 SK 13232003 A3 US 2004134181 A1	14-01-2004 07-11-2002 21-01-2004 07-07-2004 15-07-2004